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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A retaining ring comprising:

a generally annular body having a top surface, a bottom surface, an inner diameter surface, and an outer diameter surface, wherein the bottom surface includes a plurality of channels, each channel extending from the inner diameter surface to the outer diameter surface and having a curved section defining a rounded ceiling and substantially vertical side walls, wherein the curved section extends from the inner diameter to the outer diameter and the ceiling is concave in a cross-section perpendicular to the side-walls, a distance between the side-walls is constant from the bottom surface to the curved section and the outer diameter surface includes a ledge and a height of at least one of the vertical side-walls is substantially the same as a height of the ledge.

- 2. (Original) The retaining ring of claim 1, wherein the rounded ceiling has a semicircular cross-section.
- 3. (Original) The retaining ring of claim 2, wherein the semi-circular cross-section has a diameter about equal to a width of the channel.
- 4. (Original) The retaining ring of claim 1, wherein the rounded ceiling has a flat portion.
- 5. (Previously Presented) The retaining ring of claim 4, wherein the rounded ceiling is rounded at an intersection of the flat portion and the vertical side-walls of the channel.

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6. (Cancelled)

7. (Original) The retaining ring of claim 1, wherein the plurality of channels have substantially uniform depth.

- 8. (Original) The retaining ring of claim 1, wherein the plurality of channels are oriented at an angle relative to a radial segment extending through the center of the retaining ring.
- 9. (Original) The retaining ring of claim 8, wherein the angle is between 30° and 60°.
 - 10. (Cancelled)
- 11. (Previously Presented) The retaining ring of claim 1, wherein the outer diameter surface includes a first portion adjacent the bottom surface that has an outer diameter less than a second portion adjacent the top surface.
 - 12. (Cancelled)
- 13. (Original) The retaining ring of claim 1, wherein the annular body comprises a wearable material.
- 14. (Original) The retaining ring of claim 1, wherein the annular body comprises an upper portion and a lower portion, the upper portion being more rigid than the lower portion.
- 15. (Original) The retaining ring of claim 14, wherein the channels are formed in the lower portion.

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16. (Original) The retaining ring of claim 15, wherein the lower portion is formed of a wearable material.

- 17. (Original) The retaining ring of claim 15, further comprising a plurality of passages extending through the upper portion from the inner diameter surface to the outer diameter surface.
- 18. (Previously Presented) The retaining ring of claim 1, wherein the plurality of channels are distributed at substantially equal angular intervals around the retaining ring.
 - 19. (Currently Amended) A carrier head comprising:

a substrate receiving surface; and

a generally annular retaining ring surrounding the substrate receiving surface, the retaining ring having a top surface, a bottom surface, an inner diameter surface, and an outer diameter surface, wherein the bottom surface includes a plurality of channels, each channel extending from the inner diameter surface to the outer diameter surface and having a curved section defining a rounded ceiling and substantially vertical side walls, wherein the curved section extends from the inner diameter to the outer diameter and the ceiling is concave in a cross-section perpendicular to the side-walls, a distance between the side-walls is constant from the bottom surface to the curved section and [[and]] the outer diameter surface includes a ledge and a height of at least one of the vertical side-walls is substantially the same as a height of the ledge.

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20. (Currently Amended) A method of polishing, comprising: creating relative motion between a substrate and a polishing surface;

restraining the substrate with a retaining ring that has a top surface, a bottom surface, an inner diameter surface, and an outer diameter surface, wherein the bottom surface includes a plurality of channels, each channel extending from the inner diameter surface to the outer diameter surface and having a curved section defining a rounded ceiling and substantially vertical side-walls, wherein the curved section extends from the inner diameter to the outer diameter and the ceiling is concave in a cross-section perpendicular to the side-walls, a distance between the side-walls is constant from the bottom surface to the curved section and the outer diameter surface includes a ledge and a height of at least one of the vertical side-walls is substantially the same as a height of the ledge; and

supplying a polishing liquid to the polishing surface so that the polishing liquid flows through the channels and beneath the retaining ring to the substrate.

- 21. (Previously Presented) The retaining ring of claim 1, wherein the side-walls of each channel are parallel to one another for a depth of at least 0.030 inches.
- 22. (Previously Presented) The retaining ring of claim 1, wherein a height of at least one of the side-walls is greater than a depth of the curved section.